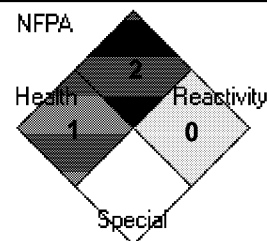


MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH SUPER PENETRANT (Liquid)****MSDS No.: L104****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** P.O. BOX 159, 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Emergency Contact:** Rocky Mountain Poison Control Center**Emergency Telephone Number:** 303-623-5716**Contact:** Robert Geer**Information Telephone Number:** 704-688-3430**Last Update:** 03/20/2003**Chemical State:** ☒ Liquid ☐ Gas ☐ Solid**Chemical Type:** ☐ Pure ☒ Mixture

1	Health
2	Flammability
0	Reactivity
C	Pers. Protection

II. Ingredients:☐ Trade Secret

CAS No.	Chemical Name	% Range	EHS	IARC	SARA	OSHA	ACGIH	Other Limits
			NTP	SUB Z	313	PEL	TLV	
111762	2-Butoxyethanol	5 - 20			X	25 ppm	25 ppm	
64742525	Naphthenic Petroleum Distillate	5 - 15				5 mg/m ³ (m	5 mg/m ³ (m	
67762383	Natural Methyl Ester	40 - 60				N/E	N/E	
8001227	Refined Soybean Oil	10 - 30				N/E	N/E	10 mg/m

III. Hazardous Identification:**Hazard Category:**
☒ Acute
 ☐ Chronic
 ☒ Fire
 ☐ Pressure
 ☐ Reactive
Hazardous Identification Information:

Danger: Combustible. Harmful or fatal if swallowed. Eye and skin irritant.

IV. First Aid Measures:**Route(s) of Entry:**

Absorption, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):**Signs and Symptoms:**

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis, dizziness, respiratory or lung irritation.

Ingestion: HARMFUL OR FATAL IF SWALLOWED.

Medical Conditions Generally Aggravated by Exposure:

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Emergency and First Aid Procedures:

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

V. Fire Fighting Measures:

Flash Point: > 140°F

Lower Explosive Limit: N/E

Upper Explosive Limit: N/E

F.P. Method: TCC

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained positive pressure breathing apparatus and protective clothes. Cool containers with a water fog. Do not use forced water stream as this could cause the fire to spread. Use shield to protect from rupturing and venting containers.

Unusual Fire and Explosion:

Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). Place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Precautions to be Taken:

Handling: Use with adequate ventilation and proper protective equipment.

Store in a cool, dry area, away from oxidizers. Keep away from open flames, sparks, or other ignition sources.

Other Precautions:

Do not use in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS! CAUTION: Combustible. Keep container closed tightly when not in use.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

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Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: 320 F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Vapor Pressure (mm Hg.): N/A

Specific Gravity (H₂O = 1): 0.89400

Vapor Density (AIR = 1): N/A

Solubility In Water: Insoluble

Appearance and Odor: Dark Liquid with petroleum odor

Other Information:

X. Stability and Reactivity:

Stability:

Product is stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizers

Decomposition/By Products:

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

Not Established

XII. Ecological Information:

Not Established

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling centers when empty. Before offering for recycling, empty the can or bottle by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations

XIV. Transport Information:

DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

MSDS - Material Safety Data Sheet***Product Name: LIQUID WRENCH SUPER PENETRANT (Liquid)******MSDS No.: L104******XVI. Other Information:***

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye.
KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established

N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

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